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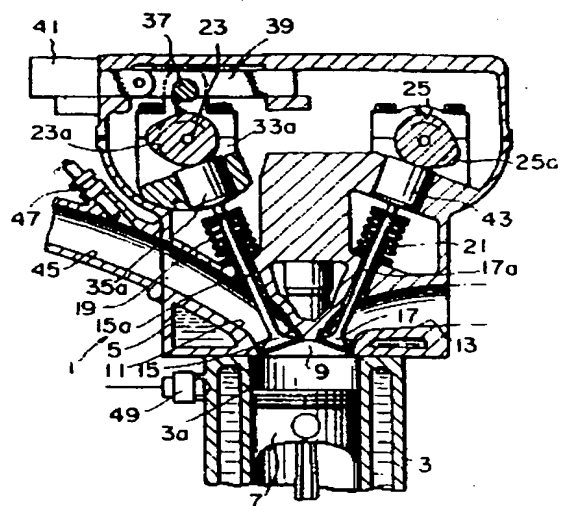
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// G01L 23/22

TITLE : APPARATUS FOR DETECTING
KNOCKING OF ENGINE



3a ...
9 ...
11 ...
23 ...
23a ...
33a ...
35a ...
41 ...
49 ...

ABSTRACT : PURPOSE: To secure a sufficient signal sampling period without generating erroneous operation by valve closing vibration, by changing the end of the period performing the intake of the output of a vibration detector corresponding to the change in the valve closing timing of a valve apparatus taking variable valve closing timing.

CONSTITUTION: The opening and closing timing of a suction valve 15 is controlled so as to be delayed corresponding to the increase in the speed of an engine and detected from the position of an operation rod 39 or the positions of revolving members 33a, 33b. The output of the vibration detector 49 of the engine is sampled for a predetermined period on and after the point of ignition time to judge the knocking state of the engine. At this time, the end of a sampling performing period is changed corresponding to the change in the valve closing timing of the valve apparatus 15 to prevent the a knocking judging means from receiving the effect of the vibration by the valve closing of the valve apparatus.

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